

AIK Sequence Listings.ST25  
SEQUENCE LISTING

<110> Syrrx, Inc.  
 <120> Crystallization of Aurora/Ipl1p-related Kinase  
 <130> SYR-AIK-5001-C1  
 <140> Not Yet Assigned  
 <141> 2003-06-20  
 <150> 60/390,355  
 <151> 2002-06-21  
 <160> 3  
 <170> PatentIn version 3.1  
 <210> 1  
 <211> 403  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> Amino acid sequence for full-length human wild type AIK  
 <222> (1)..(403)  
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 <221> Amino acid sequence for full-length human wild type AIK  
 <222> (1)..(403)  
 <223> Seq. ID. No. 1 encodes for residues 124-391

<300>  
 <308> Genbank Accession No. NP\_003591  
 <309> 1998-05-08  
 <313> (1)..(403)

<400> 1

Met Asp Arg Ser Lys Glu Asn Cys Ile Ser Gly Pro Val Lys Ala Thr  
 1 5 10 15

Ala Pro Val Gly Gly Pro Lys Arg Val Leu Val Thr Gln Gln Ile Pro  
 20 25 30

Cys Gln Asn Pro Leu Pro Val Asn Ser Gly Gln Ala Gln Arg Val Leu  
 35 40 45

Cys Pro Ser Asn Ser Ser Gln Arg Val Pro Leu Gln Ala Gln Lys Leu  
 50 55 60

Val Ser Ser His Lys Pro Val Gln Asn Gln Lys Gln Lys Gln Leu Gln  
 65 70 75 80

Ala Thr Ser Val Pro His Pro Val Ser Arg Pro Leu Asn Asn Thr Gln  
 85 90 95

# AIK Sequence Listings.ST25

Lys Ser Lys Gln Pro Leu Pro Ser Ala Pro Glu Asn Asn Pro Glu Glu  
 100 105 110  
 Glu Leu Ala Ser Lys Gln Lys Asn Glu Glu Ser Lys Lys Arg Gln Trp  
 115 120 125  
 Ala Leu Glu Asp Phe Glu Ile Gly Arg Pro Leu Gly Lys Gly Lys Phe  
 130 135 140  
 Gly Asn Val Tyr Leu Ala Arg Glu Lys Gln Ser Lys Phe Ile Leu Ala  
 145 150 155 160  
 Leu Lys Val Leu Phe Lys Ala Gln Leu Glu Lys Ala Gly Val Glu His  
 165 170 175  
 Gln Leu Arg Arg Glu Val Glu Ile Gln Ser His Leu Arg His Pro Asn  
 180 185 190  
 Ile Leu Arg Leu Tyr Gly Tyr Phe His Asp Ala Thr Arg Val Tyr Leu  
 195 200 205  
 Ile Leu Glu Tyr Ala Pro Leu Gly Thr Val Tyr Arg Glu Leu Gln Lys  
 210 215 220  
 Leu Ser Lys Phe Asp Glu Gln Arg Thr Ala Thr Tyr Ile Thr Glu Leu  
 225 230 235 240  
 Ala Asn Ala Leu Ser Tyr Cys His Ser Lys Arg Val Ile His Arg Asp  
 245 250 255  
 Ile Lys Pro Glu Asn Leu Leu Leu Gly Ser Ala Gly Glu Leu Lys Ile  
 260 265 270  
 Ala Asp Phe Gly Trp Ser Val His Ala Pro Ser Ser Arg Arg Thr Thr  
 275 280 285  
 Leu Cys Gly Thr Leu Asp Tyr Leu Pro Pro Glu Met Ile Glu Gly Arg  
 290 295 300  
 Met His Asp Glu Lys Val Asp Leu Trp Ser Leu Gly Val Leu Cys Tyr  
 305 310 315 320  
 Glu Phe Leu Val Gly Lys Pro Pro Phe Glu Ala Asn Thr Tyr Gln Glu  
 325 330 335

AIK Sequence Listings.ST25  
345 350

340

Thr Glu Gly Ala Arg Asp Leu Ile Ser Arg Leu Leu Lys His Asn Pro  
355 360 365

Ser Gln Arg Pro Met Leu Arg Glu Val Leu Glu His Pro Trp Ile Thr  
370 375 380

Ala Asn Ser Ser Lys Pro Ser Asn Cys Gln Asn Lys Glu Ser Ala Ser  
385 390 395 400

Lys Gln Ser

<210> 2  
<211> 804  
<212> DNA  
<213> Homo sapiens

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<221> Human cDNA sequence encoding residues 125-391 of AIK  
<222> (1)..(804)  
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ggtaatgttt atttggaag agaaaagcaa agcaagtta ttctggctct taaagtgtta 120  
tttaaagctc agctggagaa agccggagtg gagcatcagc tcagaagaga agtagaaata 180  
cagtcccacc ttcggcatcc taatattctt agactgtatg gttatttcca tgatgctacc 240  
agagtctacc taattctgga atatgcacca cttggaacag tttatagaga acttcagaaa 300  
ctttcaaagt ttgatgagca gagaactgct acttatataa cagaattggc aaatgccctg 360  
tcttactgtc attcgaagag agttattcat agagacatta agccagagaa cttacttctt 420  
ggatcagctg gagagcttaa aattgcagat tttgggtggt cagtacatgc tccatcttcc 480  
aggaggacca ctctctgtgg caccctggac tacctgcccc ctgaaatgat tgaaggctcg 540  
atgcatgatg agaaggtgga tctctggagc cttggagttc tttgctatga atttttagtt 600  
gggaagcctc cttttgaggc aaacacatac caagagacct acaaaagaat atcacgggtt 660  
gaattcacat tccctgactt tgtaacagag ggagccaggg acctcatttc aagactgttg 720  
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<210> 3  
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<212> PRT  
<213> Homo sapiens

# AIK Sequence Listings.ST25

<220>  
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 N-terminal 6x-histidine tag  
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<220>  
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 <222> (1)..(28)  
 <223>

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Met Ser Tyr Tyr His His His His His His Asp Tyr Asp Ile Pro Thr  
 1 5 10 15

Thr Glu Asn Leu Tyr Phe Gln Gly Ala Met Gly Ser Lys Arg Gln Trp  
 20 25 30

Ala Leu Glu Asp Phe Glu Ile Gly Arg Pro Leu Gly Lys Gly Lys Phe  
 35 40 45

Gly Asn Val Tyr Leu Ala Arg Glu Lys Gln Ser Lys Phe Ile Leu Ala  
 50 55 60

Leu Lys Val Leu Phe Lys Ala Gln Leu Glu Lys Ala Gly Val Glu His  
 65 70 75 80

Gln Leu Arg Arg Glu Val Glu Ile Gln Ser His Leu Arg His Pro Asn  
 85 90 95

Ile Leu Arg Leu Tyr Gly Tyr Phe His Asp Ala Thr Arg Val Tyr Leu  
 100 105 110

Ile Leu Glu Tyr Ala Pro Leu Gly Thr Val Tyr Arg Glu Leu Gln Lys  
 115 120 125

Leu Ser Lys Phe Asp Glu Gln Arg Thr Ala Thr Tyr Ile Thr Glu Leu  
 130 135 140

Ala Asn Ala Leu Ser Tyr Cys His Ser Lys Arg Val Ile His Arg Asp  
 145 150 155 160

Ile Lys Pro Glu Asn Leu Leu Leu Gly Ser Ala Gly Glu Leu Lys Ile  
 165 170 175

Ala Asp Phe Gly Trp Ser Val His Ala Pro Ser Ser Arg Arg Thr Thr  
 180 185 190

Leu Cys Gly Thr Leu Asp Tyr Leu Pro Pro Glu Met Ile Glu Gly Arg  
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